

D-18-X

Roll No. 239

Total No. of Questions : 8]

[Total No. of Printed Pages : 2

HSEIRKN15

6418-X

BOTANY

(Biology)

Time : 1½ Hours]

[Maximum Marks : 35

(Long Answer Type Questions)

5 Each

1. Define cross pollination. Name the contrivances that favour it and describe any *two* of them.

Or

Describe the process of double fertilization. What is its significance ?

2. What is multiple allelism ? Explain with the help of an example.

Or

Define genetic code. Point out its characteristics.

(Short Answer Type Questions)

3 Each

3. Why did Mendel select garden pea for his experiments ?
4. Define tissue culture. Name any *three* applications of tissue culture.

HSEIRKN15-6418-X

D-18-X

Turn Over

5. Name the various interactions in a biotic community and describe any *one* of them.
6. Suggest any *three* measures for controlling pollution of our lakes.

(Very Short Answer Type Questions)

2 Each

7. The following very short answer type questions of 2 marks, each may be answered in a few words or few sentences or as may be required.
 - (a) Point out the advantages of vegetative reproduction in plants.
(Any two points)
 - (b) Define polyploid breeding. Name the chemical used in inducing polyploidy.
 - (c) Point out at any ~~three~~ advantages of tissue culture technique.
 - (d) How is parasitism different from predation ?

1 Each

(Objective Type Questions)

8. Choose the correct/most appropriate answer and write in your answer-book :
 - (i) Define mortality rate.
 - (ii) Translation occurs in :
 - (a) Nucleus
 - (b) Cytoplasm
 - (c) Both (a) and (b)
 - (d) None of these
 - (iii) Succession on a burnt forest represents
 - (iv) Define national park.
 - (v) The synthesis of organic molecules by green plants represents primary productivity. (False/True)

HSEIRKN15-6418-X

D-18-X